

What is claimed is:

1. A conduction assist member comprising:
a sheet made of an insulating elastic material and having a number of through holes; and
conduction members disposed in an inside of a part of the through holes or all the through holes, the conduction members comprising a conductive material, wherein said cut piece is fixed to said sheet at an end thereof and has two or more blades which are formed by one, two or more cuts, and
wherein one or some of said two or more blades formed on each cut piece are bent toward one of two opening portions of the through hole so that ends of said blades formed on said cut pieces protrude from said opening portions on the same surface of the sheet.
2. A conduction assist member as claimed in claim 1, wherein two blades are formed by providing a single cut in the end of each cut piece.
3. A conduction assist member as claimed in claim 1, wherein the sheet is formed of two sheets each made of an insulating elastic material and laid one on top of the other, one end of the cut piece being held between the two sheets so that the cut piece is fixed to said sheet.
4. A conduction assist member as claimed in claim 1, wherein the opening portion of each of the through holes has a circular shape and a diameter of the opening portion is 0.2 to 1.2 mm.
5. A conduction assist member as claimed in claim 1, wherein a pitch of said through holes is 0.25 to 1.5 mm.
6. A conduction assist member as claimed in claim 1, wherein said conductive material is made of at least one material selected from the group

consisting of beryllium copper, titanium copper, copper-nickel-tin alloy, phosphor bronze and copper-nickel-silicon alloy.

7. A conduction assist member as claimed in claim 1, wherein the insulating elastic material is rubber or resin.

8. A conduction assist member as claimed in claim 1, wherein at least one of said two or more blades is bent toward an opening portion existing on the other surface of said sheet.

9. A manufacturing method of a conduction assist member having conduction members disposed in some or all through holes formed in a large number in a sheet made of an insulating elastic material comprising:

a first step for forming a plurality of through holes in two films made of an insulating elastic material at locations corresponding to each other;

a second step for forming, from a conductive material, a structure consisting of a number of cut pieces linked with one another and each having one, two or more cuts;

a third step for laying said structure between said two films so that each cut piece is disposed in said through hole and forming a sheet by bringing said two films into thermal press contact; and

a fourth step for cutting said cut pieces from one another and bending one or some of two or more blades formed by said cuts toward one of two opening portions of the through hole so that ends of said blades formed on said cut pieces protrude from said opening portions on the same surface of the sheet.

10. A manufacturing method of a conduction assist member as claimed in claim 9, wherein the cut pieces are cut from one another by making punching to said sheet and said blades are bent by making punching to said through holes.

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11. A manufacturing method of a conduction assist member having conduction members disposed in some or all through holes formed in a large number in a sheet made of an insulating elastic material comprising:

a first step for forming cut piece each of which has one, two or more cuts and is made of a conductive material by etching a sheet having a layer made of a conductive material at a predetermined pitch on one surface of a film made of an insulating elastic material;

a second step for covering said cut pieces by laminating another film made of an insulating elastic material with said film and forming a sheet by bringing said two films into thermal press contact;

a third step for forming through holes in the vicinities of said cut pieces; and

a fourth step for bending one or some of two or more blades formed by said cuts toward one of two opening portions of the through hole so that ends of said blades formed on said cut pieces protrude from said opening on the same surface of the sheet.

12. A manufacturing method of a conduction assist member as claimed in claim 11, wherein said blades are bent by making punching to said through hole.

13. A manufacturing method of a conduction assist member as claimed in claim 9, wherein another or others of said blades are bent, at said fourth step, toward an opening portion different from the opening portion which in the direction where the one or some of the blades are bent.

14. A manufacturing method of a conduction assist member as claimed in claim 11, wherein another or others of said blades are bent, at said fourth step, toward an opening portion different from the opening portion which in the direction where the one or some of the blades are bent.

15. A manufacturing method of a conduction assist member as claimed in claim 9, wherein each cut piece has two blades formed by a single cut.

16. A manufacturing method of a conduction assist member as claimed in claim 11, wherein each cut piece has two blades formed by a single cut.

5 17. A manufacturing method of a conduction assist member as claimed in claim 9, wherein the opening portions of said through holes have a circular shape and a diameter of the opening portions is 0.2 to 1.2 mm.

18. A manufacturing method of a conduction assist member as claimed in claim 11, wherein the opening portions of said through holes have a circular shape and a diameter of the opening portions is 0.2 to 1.2 mm.

19. A manufacturing method of a conduction assist member as claimed in claim 9, wherein a pitch of said through holes is 0.25 to 1.5 mm.

20. A manufacturing method of a conduction assist member as claimed in claim 11, wherein a pitch of said through holes is 0.25 to 1.5 mm.

21. A manufacturing method of a conduction assist member as claimed in claim 9, wherein said conductive material is made of at least one material selected from the group consisting of beryllium copper, titanium copper, copper-nickel-tin alloy, phosphor bronze and copper-nickel silicon alloy.

22. A manufacturing method of a conduction assist member as claimed in claim 11, wherein said conductive material is made of at least one material selected from the group consisting of beryllium copper, titanium copper, copper-nickel-tin alloy, phosphor bronze and copper-nickel silicon alloy.

23. A manufacturing method of a conduction assist member as claimed in claim 9, wherein said insulating elastic material is rubber or resin.

25 24. A manufacturing method of a conduction assist member as claimed in claim 11, wherein said insulating elastic material is rubber or resin.

25. A connector comprising:

a conduction assist member comprising;

a sheet made of an insulating elastic material and having a number of through holes; and

5 conduction members disposed in an inside of a part of the through holes or all the through holes.

wherein said cut piece is fixed to said sheet at an end thereof and has two or more blades which are formed by one, two or more cuts, and

wherein one or some of said two or more blades formed on each cut piece are bent toward one of two opening portions of the through hole so that ends of said blades formed on said cut pieces protrude from said opening portions on the same surface of the sheet, and

wherein the conduction assist member is made to intervene between connecting members.

26. An integrated circuit socket, wherein the conduction assist member as claimed in claim 1 is used as a contact substrate to a terminal of an integrated circuit.

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